



Patent Attorney Docket No. 033808-004

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

Taekyun Kim et al.

Group Art Unit: 2171

Application No.: 10/618,857

Examiner:

Filing Date: July 15, 2003

Confirmation No.: 6991

Title: APPARATUS AND METHOD FOR RETRIEVING FACE IMAGES USING COMBINED COMPONENT DESCRIPTORS

INFORMATION DISCLOSURE STATEMENT  
TRANSMITTAL LETTER

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Enclosed is a \_\_\_\_\_ Information Disclosure Statement and accompanying form PTO-1449 for the above-identified patent application.

- ☒ No additional fee for submission of an IDS is required.
- ☐ The fee of \$180.00 (1806) as set forth in 37 C.F.R. § 1.17(p) is also enclosed.
- ☒ A statement under 37 C.F.R. § 1.97(e) is also enclosed.
- ☐ A statement under 37 C.F.R. § 1.97(e), and the fee of \$180.00 (1806) as set forth in 37 C.F.R. § 1.17(p) are also enclosed.
- ☐ Charge \_\_\_\_\_ to Deposit Account No. 02-4800 for the fee due.
- ☐ A check in the amount of \_\_\_\_\_ is enclosed for the fee due.
- ☐ Charge \_\_\_\_\_ to credit card. Form PTO-2038 is attached.

The Director is hereby authorized to charge any appropriate fees under 37 C.F.R. §§ 1.16, 1.17 and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 02-4800. This paper is submitted in duplicate.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

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By

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Date: 06 May 2005

(8/04)



**THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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For: APPARATUS AND METHOD FOR )  
RETRIEVING FACE IMAGES USING )  
COMBINED COMPONENT )  
DESCRIPTORS )

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, the accompanying information is being submitted in accordance with 37 C.F.R. §§ 1.97 and 1.98.

Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents cited is enclosed.

I, the undersigned, hereby state that each item of information contained in this Information Disclosure Statement and not previously submitted to the U.S. Patent and Trademark Office in this application, was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three (3) months prior to the filing of this Information Disclosure Statement.

To assist the Examiner, the document is / documents are listed on the attached form PTO-1449. It is respectfully requested that an Examiner initialed copy of this form be returned to the undersigned.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

Date 06 May 2005

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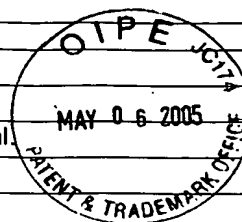
# **FIRST INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 1

**Complete if Known**

Application Number 10/618,857  
 Filing Date July 15, 2003  
 First Named Inventor Taekyun Kim et al.  
 Examiner Name  
 Attorney Docket Number 033808-004

**U.S. PATENT DOCUMENTS**

Examiner Initials	Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Issue/Publication Date (MM-DD-YYYY)
	2003/0215115	A1	Kim et al.	11-20-2003

**NON-PATENT LITERATURE DOCUMENTS**

Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	Zhao L., et al., "Mosaic image method: a local and global method", Pattern Recognition, Elsevier, Kidlington, GB, August 1999, Vol. 32, No. 8, August 1999, pp. 1421-1433, XP0044169488
	Franc, V., et al., "An Extension of the Component-based LDA Descriptor by the Generalised Discriminant Analysis M8727", ISO IEC JTC1 SC29 WG11 MPEG2002, July 2002, pp. 1-5, XP002314056
	Belhumeur, P.N., et al., "Eigenfaces vs. Fisherfaces: Recognition Using Class Specific Linear Projection", IEEE Transactions on Pattern Analysis and Machine Intelligence, Vol. 19, No. 7, July 1997, pp. 711-720, New York. XP000698170
	Potamianos, G., et al., "Improved ROI and within frame discriminant features for lipreading", International Conference on Image Processing, Vol. 1 of 3, Conf. 8, October 2001, pp. 250-253, New York, New York, XP010563330
	Baudat, G., et al., "Generalized discriminant analysis using a kernel approach", Neural Computation, Massachusetts Institute of Technology, October 2000, Vol. 12, No. 10, pp. 2385-2404, XP002172299
	Kouzani, A.Z., et al., "Multiresolution eigenface-components", Speech and Image Technologies for Computing and Telecommunications, Proceedings of IEEE Brisbane, QLD, Australia, December 1997, pp. 353-356, New York, New York, USA, XP010264172
	Shakunaga, T., et al., "Decomposed eigenface for face recognition under various lighting conditions, Proceedings of the IEEE Computer Conference on Computer Vision and Pattern Recognition, Vol. 1 of 2, December 2001, pp. 864-871, Los Alamitos, CA, XP010583836
	Cagnoni, S., et al., "A modified modular eigenspace approach to face recognition", IEEE Comput. Soc., September 1999, pp. 490-495, Los Alamitos, CA, XP010354175
	Pentland, A., et al., "View-Based and Modular Eigenspaces for Face Recognition", IEEE Comp. Soc. Press, June 1994, pp. 84-91, Los Alamitos, CA, XP000515825
	Tae-Kyun Kim, et al., "Face description based on decomposition and combining of a facial space with LDA", Int. Conf. Image Processing, Vol. 3, September 2003, pp. 877-880, XP010669974
	Jian Huang, et al., "Component-based LDA method for face recognition with one training sample", IEEE Int. Workshop Analysis and Modelling of Faces and Gestures, pp. 120-126, 2003, XP 010664354
	Qiong Yang et al., "Discriminant local feature analysis of facial images, Proc. Int. Conf. on Image Processing, Vol. 2, September 2003, pp. 863-866, XP010670594
	Gottumukkal R. et al., "An improved face recognition technique based on modular PCA approach", Pattern Recognition Letters, Vol. 25, No. 4, March 2004, pp. 429-436, North-Holland Publ. Amsterdam, NL, XP004487933

Examiner Signature	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.